1 of 9

SEQ ID NO:1:

GGCATATTAGCTTGGGTTACTGTGAATTTTCTGACAGGTCAGCTGCATGGCCACAGA CAGGAGACTGTGGGGACCTTGGACCTAGGGGGAGCCTCCACCCAAATCACGTTCCT GCCCCAGTTTGAGAAAACTCTGGAACAAACTCCTAGGGGCTACCTCACTTCCTTTGA GATGTTTAACAGCACTTATAAGCTCTATACACATAGTTACCTGGGATTTGGATTGAA AGCTGCAAGACTAGCAACCCTGGGAGCCCTGGAGACAGAAGGGACTGATGGGCACA'

SEQ ID NO:2:

GCGGGCTGCCGCAAGGGTGGCGCGCGCGCGCGTTTTCCTTGTTCCTGGTCAACAAAG AAATGTGGAGTGTCTTGGCTGAATCCTCATACAGACAAGATCATTATGGTGCTGTTA AAATTGCCTCTGCAGGTGTGCGAGCAGGATTGCTTCTGCAACAAAGCCTCCACCCA GCCACATCTTGGGAAAAGAATGGCCACTTCTTGGGGCACAGTCTTTTTCATGCTGGT GGTATCCTGTGTTTGCAGCGCTGTCTCCCACAGGAACCAGCAGACTTGGTTTGAGGG TATCTTCCTGTCTTCCATGTGCCCCCATCAATGTCAGCGCCAGCACCTTGTATGGAATT ATGTTTGATGCAGGGAGCACTGGAACTCGAATTCATGTTTACACCTTTGTGCAGAAA ATGCCAGGACAGCTTCCAATTCTAGAAGGGGAAGTTTTTGATTCTGTGAAGCCAGGA CTTTCTGCTTTTGTAGATCAACCTAAGCAGGGTGCTGAGACCGTTCAAGGGCTCTTA GAGGTGGCCAAAGACTCAATCCCCCGAAGTCACTGGAAAAAGACCCCAGTGGTCCT AAAGGCAACAGCAGGACTACGCTTACTGCCAGAACACAAAGCCAAGGCTCTGCTCT TTGAGGTAAAGGAGATCTTCAGGAAGTCACCTTTCCTGGTACCAAAGGGCAGTGTTA GCATCATGGATGGATCCGACGAAGGCATATTAGCTTGGGTTACTGTGAATTTTCTGA CAGGTCAGCTGCATGGCCACAGACAGGAGACTGTGGGGGACCTTGGACCTAGGGGGA GCCTCCACCCAAATCACGTTCCTGCCCCAGTTTGAGAAAACTCTGGAACAACTCCT AGGGGCTACCTCACTTCCTTTGAGATGTTTAACAGCACTTATAAGCTCTATACACAT AGTTACCTGGGATTTGGAAAGCTGCAAGACTAGCAACCCTGGGAGCCCTGGA GACAGAAGGGACTGATGGGCACACTTTCCGGAGTGCCTGTTTACCGAGATGGTTGG AAGCAGAGTGGATCTTTGGGGGGTGTGAAATACCAGTATGGTGGCAACCAAGAAGGG GAGGTGGGCTTTGAGCCCTGCTATGCCGAAGTGCTGAGGGTGGTACGAGGAAAACT TCACCAGCCAGAGGGTCCAGAGAGGTTCCTTCTATGCTTTCTCTTACTATTATGA CCGAGCTGTTGACACAGACATGATTGATTATGAAAAGGGGGGGTATTTTAAAAGTTGA AGATTTTGAAAGAAAAGCCAGGGAAGTGTGTGATAACTTGGAAAACTTCACCTCAG GCAGTCCTTTCCTGTGCATGGATCTCAGCTACATCACAGCCCTGTTAAAGGATGGCT ACGGGCTGGGCCTTGGGGCCACCTTTCACCTGTTGCAGTCTCTGGGCATCTCCCAT TGAGGCCACGTACTTCCTTGGAGACCTGCATTTGCCAACACCTTTTTTAAGGGGAGGA GAGAGCACTTAGTTTCTGAACTAGTCTGGGGACATCCTGGACTTGAGCCTAGAGATT WRGTTAATTAASCGGCCGAGCTTATCCTTWATRAGGTAATTTACTTGCMTGGCCGCG TTTACACGTCGTGATGGNAAACCTGCGTCCCAACTAACGCTTGASAMATCCCCTTCG CAGCTGCGATACCAAAAGCCGACGACGCCTTCCACAGTGCCA

Title: Methods and Materials Relating to Novel
CD39-Like Polypeptides
Figure 2

SEQ ID NO:3:

MATSWGTVFFMLVVSCVCSAVSHRNQQTWFEGIFLSSMCPINVSASTLYGIMFDAGSTG TRIHVYTFVQKMPGQLPILEGEVFDSVKPGLSAFVDQPKQGAETVQGLLEVAKDSIPRSH WKKTPVVLKATAGLRLLPEHKAKALLFEVKEIFRKSPFLVPKGSVSIMDGSDEGILAWV TVNFLTGQLHGHRQETVGTLDLGGASTQITFLPQFEKTLEQTPRGYLTSFEMFNSTYKLY THSYLGFGLKAARLATLGALETEGTDGHTFRSACLPRWLEAEWIFGGVKYQYGGNQEG EVGFEPCYAEVLRVVRGKLHQPEEVQRGSFYAFSYYYDRAVDTDMIDYEKGGILKVED FERKAREVCDNLENFTSGSPFLCMDLSYITALLKDGFGFADSTVLQLTKKVNNIETGWA LGATFHLLQSLGISH

Figure 2

CD39Human, seq M E D T K E S N V K T F C S K N I U A I L G F S S L I A W I A L L A I W C 246 prot MA TIS W GIT V F F MULVIVIS C V CIS AWS H R N C Q T W F E S	
CO39Huten.seq [ONK ALPENIXYGIVLDAGSSHTSLYIYEWFIEL 246 prot USSMCPINVSALT LLYGIMFOAGSTOTTRIHUVTFVQXM	
CD39Humanuseq TOVVHOVEECRVKGPGISKFVOKVNEIGIYLTOCHERA 246 prot : DPIILEGEVFDSWKPGLISIAFVDQPKQGAETVQGLLIEV	
CD39Human.seq VIPRSCHOETPVYLGATAGMRLLEMESEELADRYLDUX 246 prot SIPRSHWKKTPVVLKATAGURLLPEHKIAKALLFEL	
CO39% men. seq SISNYPFDFOI GARIITGOEEGAYGWITINYLLOKF 246 prot IFRKSPFLVPKGSVSLMDGSDEGILAWVTVNFLLTGIQL	<u> </u>
CD39HLman.seq TRWFSIVPYETNNQERFGALDLGGASTQVTFVPQ-NOT 246 prot	
CD39Human. sec SPDNA LOFFLYGXDYNVYTHSFLCYGKDOALWCKLA 246 prot QTPRGYLTSEEMFNSTYKLYTHSYLGFGLKALA RL	X X D 259 X T L 255
CD39HLman.seq TOVASNETLRDPCFHPGYKKVVNVSDLYKTPCTKR-F: 246 prot GALEITEG	EMT 308 EAE 280
CO39Human. seq [1 P F O O F] E I O G I G N Y O O C H O S I L E L F N T S Y C P Y 246 prot WIEGGVKYQYGGNQEGEVGFEPCYA E V L R V V R G K	<u>(S O</u>) 342 314
CD39Human.seq CAFNGIFLPPLOGEFGAFSAF YFVMKFLNLTSEKV 246 protLHQPEEVQRGSEYAESYYYDRAVDTDMI	5 O E 360 D Y E 345
CD39Human.seq KVTEM - MKKFCAOPWE EIKTSYAGVKEKYLSEYCE 246 prot KGGILKVEDEERKAREVCDNLEMFITSGSP - FL CM	5 G T 417 D L S 381
CD39Human.seg YILSLLLOGYHFTADSWEHIHFIGKIOGSDAGWTLGYI 246 prot YITALLK DGFGFADSTVLQLTKKVNNIETGWALGA	H L N 457 T F H 419
CD39Human.seq LTNMIPAEOPLSTPLSHSTYVFLMVLFSLVLFTVAII 246 prot LLQSLGISH	G L L 497 428
CD39Human.seq <u>I F H K P S Y F W K D M V</u> 246 prot	510 42 9

Fitle: Methods and Materials Relating to Novel
CD39-Like Polypeptides

Figure 4

L MATSWGTVFFMLVVSCV <u>ICSAVSHRN</u> QQTWFEGIFL3SMCP MATSWGAVF-MLIIACVGSTVFY <u>IREQCTWFEGVFLSS</u> Wca	liki prot . mur htpase
41 INVSASTLYGIMFDAGSTGTRIHVYTFVQKMPGQLFILEG 42 INVSAGTFYGIMFDAGSTGTRIHVYTFVQKT+GCLFFLEG	146 prot mur ntpese
EL EVFDSVKPGLSAFVDQPKQGAETVQGLLEVAKDSIFRSHW 80 EIFDSVKPGLSAFVDQPKQGAETVOELLEVAKDSIPRSHW	146 prot mur nipase
121 KKTPVVLKATAGLRELPEHKAKALLFEMKEIFRKSPFLVP 120 ERTPVVLKATAGLRELPEOKAGALLLEVEEIFRMSPFLVP	light prot
161 KIGSVSIMDGSDEGILAWVTVNFLTGQLHGHRQETVGTLDL SODGSVSIMDGSIYIEGILAWVTVNFLTGQLHGRIGGETVGTLDL	246 prot mur ntpase
201 GGASTQITFLPQFEKTLEQTPRGYLTSFEMFNSTYKLYTH 200 GGASTQITFLPQFEKTLEQTPRGYLTSFEMFNSTFKLYTH	246 prot
241 SYLOFGLKÄÄRLÄTLGÄLETEGT DGHTFRSÄCLPRWLEÄE 240 SYLOFGLKÄÄRLÄTLGÄLEÄ KOTDGHTFRSÄCLPRWLEÄE	246 prot mur ntpase
281 WIFGGVKYQYGGNQEGEVGFEPCYAEVLRVVRGKLHQPEE 280 WIFGGVKYQYGGNQEGEMGFEPCYAEVLRVVQGKLHQPEE	246 prot mur ntpese
321 VORGSFYAFSYYYDRANDTDMIDYEKGGILKVEDFERKAR 320 VRGSAFYAFSYYYDRAADTHLIDYEKGGVLKVEDFERKAR	246 prot mur napese
361 EVCDNLENFTSGSPFLCMDLSYITALLKDGFGFADSTVLIQ 360 EVCDNLGSFSSGSPFLCMDLTYITALLKDGLGFAERHPLT	241 TOE
401 LTKKVNNIETGW-ALGAMF	246 prot mur ntpase
428 439 SEPVESOEGVDSETESDUSGKAWPETR	246 prot mir ntpase

Figure 4

Figure 5

inserved Regions in CD39-L Apyrase Co

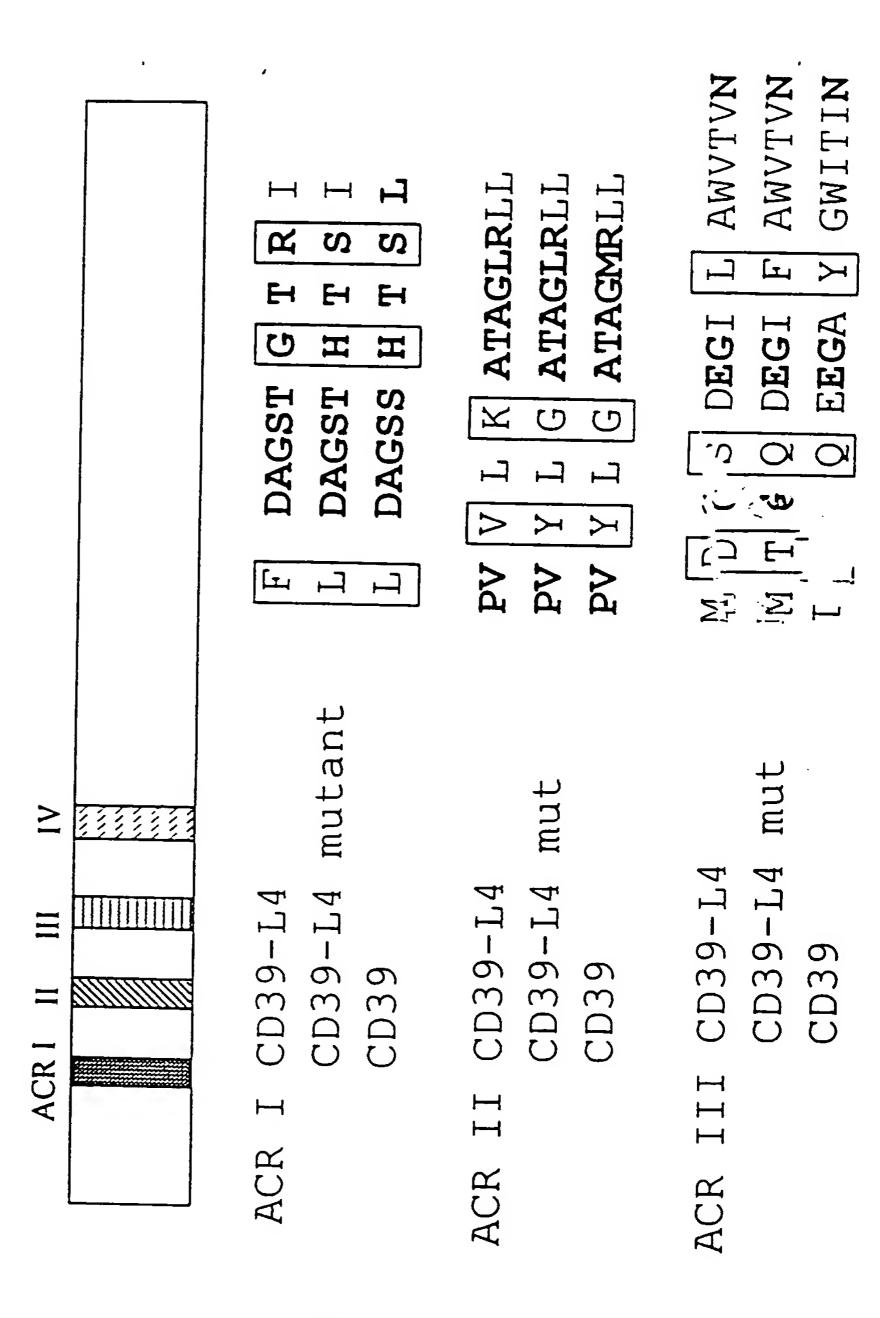


FIG. 5

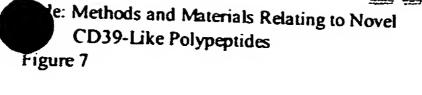
Figure 6

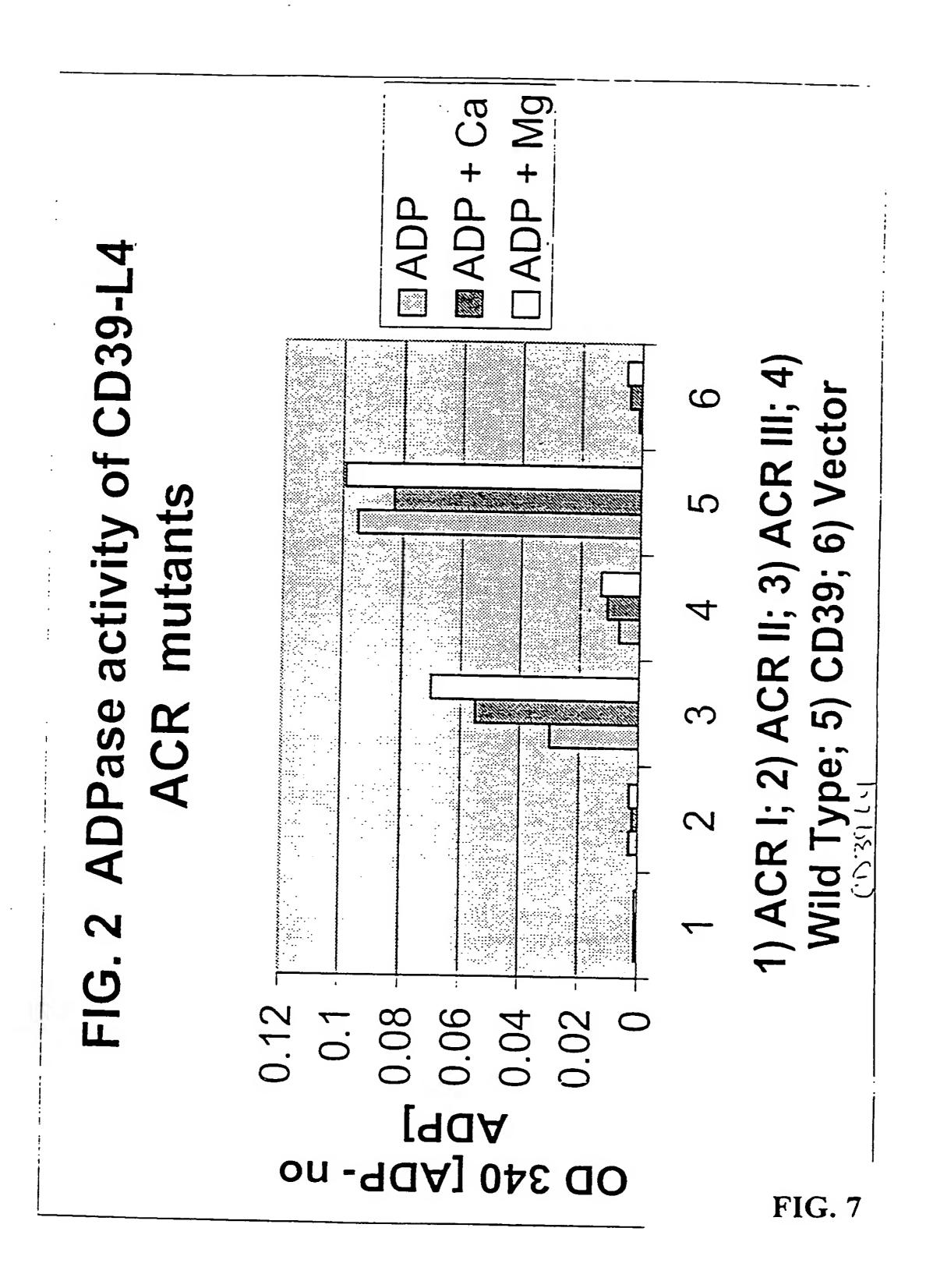
Nucleotide sequence of the CD39-L4 mutant ACRIII (SEQ ID NO:6). The nucleotide changes have been highlighted. The G to A and A to C changes at positions 502 and 503 produce a Thr, the T to C, C to A and C to A changes at positions 508-510 result in a Gln and the A to C changed at position 525 result in a Phe.

ATGGCCACTTCTTGGGGCACAGTCTTTTTCATGCTGGTGTATCCTGTGTTTTGCAGCGCTGTCT CCCACAGGAACCAGCAGACTTGGTTTGAGGGTATCTTCCTGTCTTCCATGTGCCCCCATCAATGT CAGCGCCAGCACCTTGTATGGAATTATGTTTGATGCAGGGAGCACTGGAACTCGAATTCATGTT TACACCTTTGTGCAGAAAATGCCAGGACAGCTTCCAATTCTAGAAGGGGAAGTTTTTGATTCTG TGAAGCCAGGACTTTCTGCTTTTGTAGATCAACCTAAGCAGGGTGCTGAGACCGTTCAAGGGCT CTTAGAGGTGGCCAAAGACTCAATCCCCCGAAGTCACTGGAAAAAGACCCCCAGTGGTCCTAAAG GCAACAGCAGGACTACGCTTACTGCCAGAACACAAAGCCAAGGCTCTGCTCTTTTGAGGTAAAGG ${\tt AGATCTTCAGGAAGTCACCTTTCCTGGTACCAAAGGGCAGTGTTAGCATCATG{\ref{ACTGGACAA}GA}}$ GAGACTGTGGGGACCTTGGACCTAGGGGGGAGCCTCCACCCAAATCACGTTCCTGCCCCAGTTTG AGAAAACTCTGGAACAAACTCCTAGGGGCTACCTCACTTCCTTTGAGATGTTTAACAGCACTTA TAAGCTCTATACACATAGTTACCTGGGATTTGGATTGAAAGCTGCAAGACTAGCAACCCTGGGA GCCCTGGAGACAGAAGGGACTGATGGGCACACTTTCCGGAGTGCCTGTTTACCGAGATGGTTGG AAGCAGAGTGGATCTTTGGGGGGTGTGAAATACCAGTATGGTGGCAACCAAGAAGGGGAGGTGGG GTCCAGAGAGGTTCCTTCTATGCTTTCTCTTACTATTATGACCGAGCTGTTGACACAGACATGA TTGATTATGAAAAGGGGGGTATTTTAAAAGTTGAAGATTTTGAAAGAAAAGCCAGGGAAGTGTG TGATAACTTGGAAAACTTCACC TCAGGCAGTCCTTTCCTGTGCATGGATCTCAGCTACATCAC GAAC AACATAG AGACGGGCTGGGCCTTGGGGGCCACCTTTCACCTGTTGCAGTCTCTGGGCA TCTCCCATTGA

Amino acid sequence of CD39-L4 mutant ACR III (SEQ ID NO:7). The amino acid changes are D to T (a.a. 168), S to Q (a.a. 170) and L to F (a.a. 175). The changes are shown in bold.

MATSYGTVFFMLVVSCVCSAVSHRNQQTWFEGIFLSSMCPINVSASTLYGIMFDAGSTGT RIHVYTFVQKMPGQLPILEGEVFDSVKPGLSAFVDQPKQGAETVQGLLEVAKDSIPRSHW KKTPVVLKATAGLRLLPEHKAKALLFEVKEIFRKSPFLVPKGSVSIMTGQDEGIFAWVTV NFLTGQLHGHRQETVGTLDLGGASTQITFLPQFEKTLEQTPRGYLTSFEMFNSTYKLYTH SYLGFGLKAARLATLGALETEGTDGHTFRSACLPRWLEAEWIFGGVKYQYGGNQEGEVGF EPCYAEVLRVVRGKLHQPEEVQRGSFYAFSYYYDRAVDTDMIDYEKGGILKVEDFERKAR EVCDNLENFTSGSPFLCMDLSYITALLKDGFGFADSTVLQLTKKVNNIETGWALGATFHL LQSLGISH





CD39-Like Polypeptides

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	SEPVESQEGVDSETESDLSGKAWPETR SEPVESQEGVDSETESDLSGKAWPETR
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	SEPVESQEGVDSETESDLSGKAWPETR
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	SERVESQEGVDSETESDLSGKAWPETR SERVESQEGVDSETESDLSGKAWPETR
	SEPVESQEGVDSETESDLSGKAWPETR
	SEPVESQEGVDSETESDLSGKAWPFTP
	SERVESOEGVDSETEDITKKVNNIETGW-ALGATF
WITTING CALL	SEPVESOEGVDS TV LOLTKKVNNIETGW-ALGATFHLLQSLGISAVLRAVLRAVLRAVLRAVLRAVLRAVLRAVLRAVLRAVFSOEGVDS FTF CDT COVAGE TO THE
NI STATE OF	SEPVESOFG VORFERENT CONTRICTOR ALGATE HILLOSLGIS 4 SEPVESOFG VORFERENT CONTRICTOR AND CONTRIC
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A LEASE SOLO LE COLS L	S L L K D G F G F A D S T V L Q L T K K V N N I E T G W - A L G A T F H L L Q S L G I S 4 5 L L K D G F G F A D S T V L C - A
THE THE TANK PETR	S L L K D G F G F A D S T V L Q L T K K V N N I E T G W - A L G A T F H L L Q S L G I S 4 5 L L K D G F G F A D S T V L Q - A
THE SULSCHAMPETR	S L L K D G F G F A D S T V L Q L T K K V N N I E T G W - A L G A T F H L L Q S L G I S 4 5 L L K D G F G F A D S T V L Q - A
ncpase servesquegubserametra	SLLKDGFGFADSTVLQLTKKVNNIETGW-ALGATFHLLQSLGIS4 5LLKDGFGFADSTVLO-A
SEPVFSQEGVDSETFSDLSGKAWPETR	NO-3 LLKDGFGFADSTVLOLTKKVNNIETGW-ALGATFHLLDQSLGIS4 NO-5 LLKDGFGFADSTVLQ-A
ASSE SEPVESQEGVDSETFSDLSGKAWPETR	NO-3 LLKDGFGFADSTVLOLTKKVNNIETGW-ALGATFHLLDGSLGIS4 NO-5 LLKDGFGFADSTVLO-A
SEPVFSQEGVDSETFSDLSGKAWPETR	NO-3 LLKDGFGFADSTVLQLTKKVNNIETGW-ALGATFHLLDQSLGISA NO-5 LLKDGFGFADSTVLQ-A
SEPVFSQEGVDSETFSDLSGKAWPETR	NO-3 LLKDGFGFADSTVLOLTKKVNNIETGW-ALGATFHLLLQSLGIS4 NO-5 LLKDGFGFADSTVLO-A
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SEPVESQEGVDSETESDLSGKAWPETR	NO-3 LLKDGFGFADSTVLQLTKKVNNIETGW - ALGATF HILLOTVLG TG COLT COLT COLT COLT COLT COLT COLT COLT
SEPVESQEGVDSETESDLSGKAWPETR	NO-3 ILLKUGFGFADSTVLOLITIKIVNNTETOLE ALTOLETIN STELLENDOFFGFADSTVLTTSTVLTADSTVLTA
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